CDP-S37/S207

SERVICE MANUAL

Canadian Model
AEP Model
UK Model
E Model
CDP-S37

US Model
Canadian Model
AEP Model
UK Model
CDP-S207

SPECIFICATIONS

Compact disc player

	CDP-S207	CDP-S37
Frequency response	5 Hz – 20 kHz ($^{+0.5}_{-2.0}$ dB)	
Signal to noise ratio	More than 95 dB	
Dynamic range	More than 90 dB	
Harmonic distortion	Less than 0.05% (at 1 kHz)	
Channel separation	More than 90 dB	

Outputs

	CDP-S207	CDP-S37
LINE OUT (FIXED) (phono jacks)	Output level 2 V (at 50 kilohms) Load impedance over 10 kilohms	
HEADPHONES (stereo phone jack)	–	Output level max. 11 mW
	–	Load impedance 32 ohms

General

	CDP-S207	CDP-S37
Power requirements	AEP model: (CDP-S207/CDP-S37) 220V AC, 50/60Hz UK model: (CDP-S207) 240V AC, 50/60Hz US model: (CDP-S207) 120V AC, 60Hz Canadian model: (CDP-S207/CDP-S37) 120V AC, 60Hz E model: (CDP-S37) 110~120 or 220~240V AC adjustable, 50/60Hz	
Power consumption	10 W	
Dimensions (approx., including projections)	225 × 65 × 230 mm (w/h/d) ($8\frac{3}{8} \times 4\frac{3}{4} \times 9\frac{1}{8}$ inches)	
Weight (approx.)	2.0 kg (4 lb 7 oz)	

Model Name Using Similar Mechanism	New
CD Transport Mechanism Type	KSS-211A
Optical Pick-Up Block Type	BU-5F

Supplied accessories

	CDP-S207	CDP-S37
Audio cord	1 (2 phono plugs – 2 phono plugs)	
Connecting cord	1	

Design and specifications subject to change without notice.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MICROFILM

COMPACT DISC PLAYER

SONY®

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

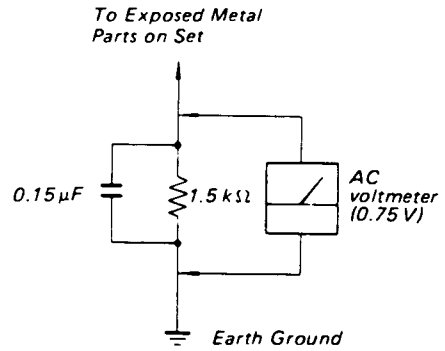


Fig. A. Using an AC voltmeter to check AC leakage.

SERVICING NOTE

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

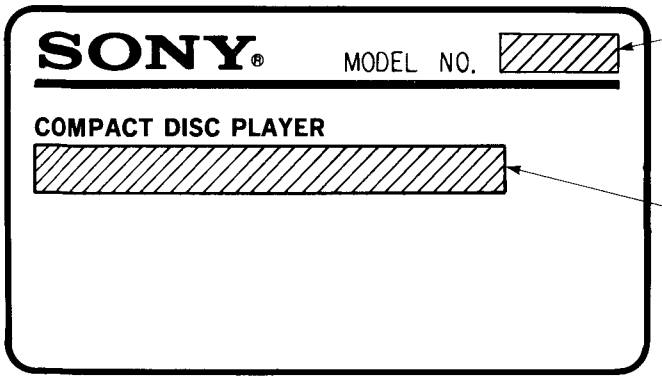
CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

MODEL IDENTIFICATION
(Specfication Label)

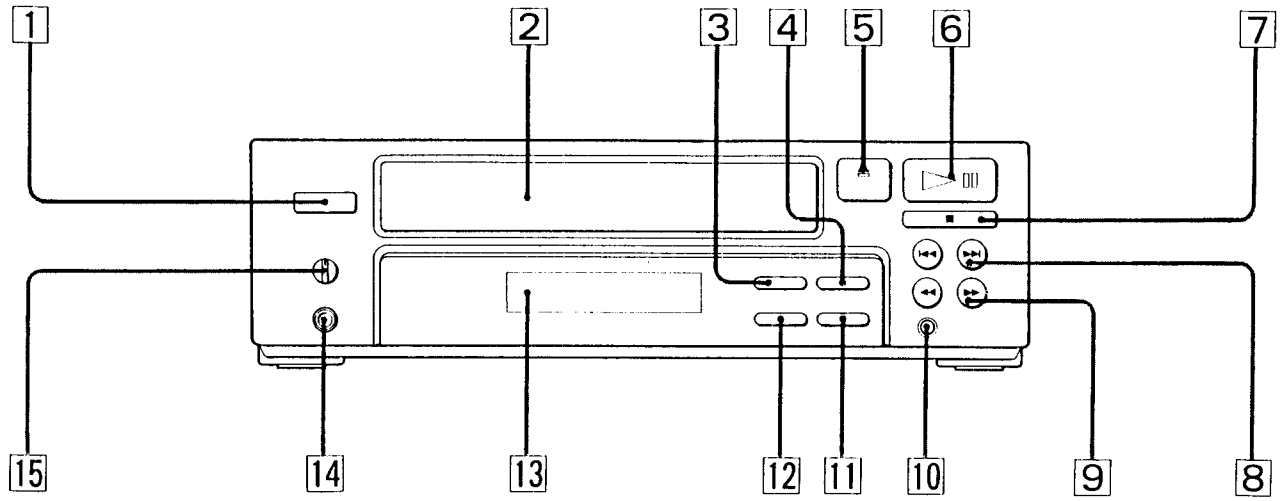


CDP-S37
CDP-S207

US model:	AC	120V	60Hz	10W
Canadian model:	AC	120V	60Hz	10W
AEP model:	AC	220V~50/60Hz		
UK model:	AC	240V~50/60Hz		
E model:	AC	110-120/220-240V~50/60Hz		10W

SECTION 1
GENERAL

1-1. LOCATION OF CONTROLS



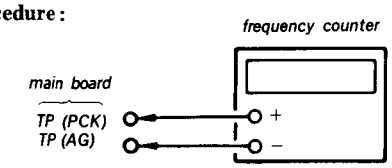
[1] POWER switch
[2] Disc compartment
[3] PROGRAM button
[4] SHUFFLE button
[5] ▲ (open/close) button
[6] ▶II (play/pause) button
[7] ■ (stop) button
[8] I◀◀ ▶▶I (AMS) button
[9] ◀◀ ▶▶ (manual search) buttons
[10] REPEAT button
[11] CONTINUE button
[12] TIME button
[13] Display window
[14] HEADPHONES jack (only for S37)
[15] PHONE LEVEL (headphone Level) control (only for S37)

SECTION 2
ELECTRICAL ADJUSTMENTS

1. Perform adjustments is the order given.
2. Use YEDS-18 (Part No: 3-702-101-01) disc unless otherwise indicated.
3. Use the oscilloscpe with more than 10 MΩ impedance.

RF PLL Frequency Adjustment/Lock Frequency Check

Procedure:

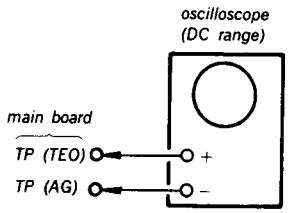


1. Connect test point TP (ASY) to ground with lead wire.
2. Turn POWER switch on.
3. Connect the frequency counter to test point TP (PCK) and TP (AG).
4. Adjust RV4 so that the reading on the frequency counter is 4.3218MHz±30kHz.... (RF PLL frequency adjustment).
5. Remove lead wire connecting TP (ASY) to ground.
6. Put disc (YEDS-18) in and press ▷ button.
7. Confirm that the reading on frequency counter is 4.3218MHz.... (Lock frequency check).

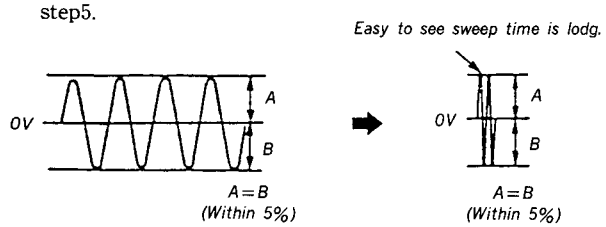
E-F Balance Adjustment

This adjustment should be made when replacing TOP (T-type Optical Pick-up).

Procedure:



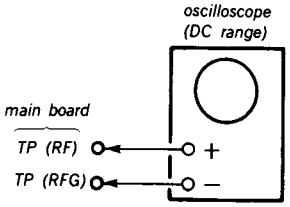
1. Connect test point TP (ADJ) and test point TP (TEI) to ground with lead wire.
2. Connect oscilloscope to test point TP (TEO) and TP (AG).
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and press ▷ button.
5. Adjust RV1 so that the traverse waveform is symmetrical above and belew.
6. After adjustment, remove the lead wire connected in step5.



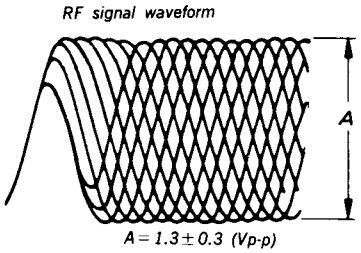
Focus Bias Adjustment

This adjustment should be made when replacing TOP (Ttype Optical Pick-up).

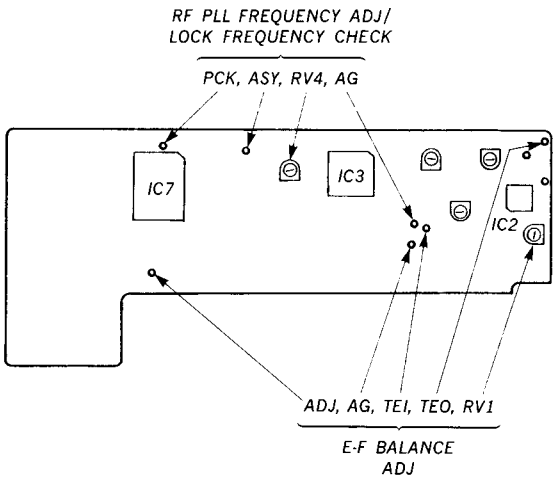
Procedure:

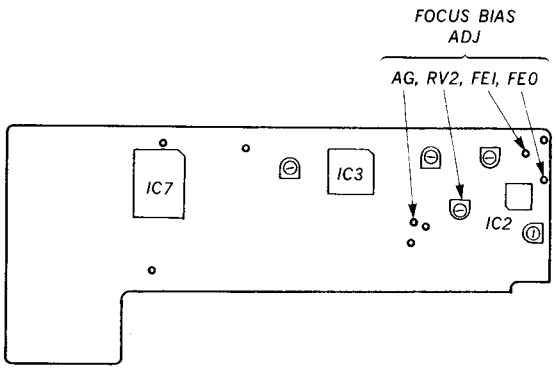


1. Connect oscilloscope to test point TP (RF) and TP (RFG).
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and press ▷ button.
4. Adjust RV102 for an optimum waveform eye pattern or so that the peak is maximum. Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.



Adjustment Location: main board





REFERENCE

Focus/Tracking Gain Adjustments

A frequency responce analyzer is necessary in order to perform this adjustment exactly.

However, this gain has a margin, so even if it is slightly off, there is no problem. Therefore, do not perform this adjustment.

Focus/tracking gain determines the pick-up follow up (vertical and horizontal) relative to mechanical noise and shock when the 2-axis device operate.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.
- When gain adjustment is off, the symptoms below appear.

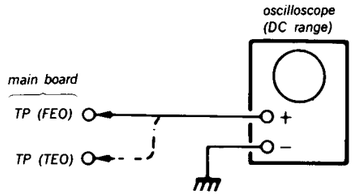
Symptoms \ Gain	Focus	Tracking
● The time until music starts becomes longer for ■ →▷ or automatic selection. (⏮, ⏭ buttons pressed.)(Normally takes about 1 seconds.)	low	low or high
● Music does not start and disc continues to rotate for ■→▷ or automatic selection. (⏮, ⏭ buttons pressed.)	—	low
● Disc table opens shortly after ■→▷.	low or high	—
● Sound is interrupted during PLAY or time counter display stops progressing.	—	low
● More noise during 2-axis device operation.	high	high

The following is a simple adjustment method.

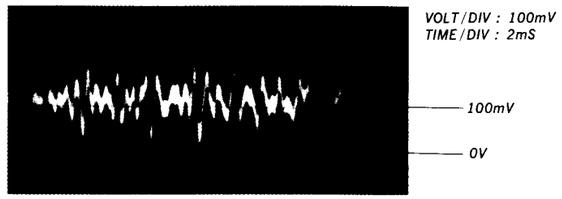
—Primary Adjustment—

Note : Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the position after the primary adjustment are only a little different, return the controls to the original position.

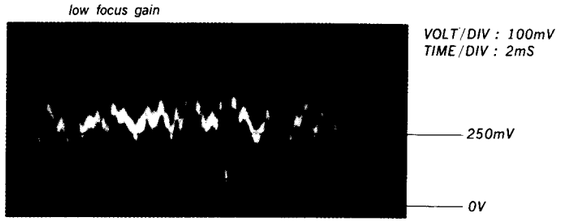
Procedure :

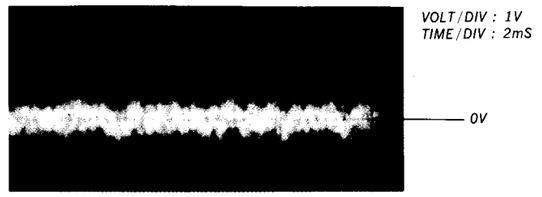


1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18 : Fifth Selection) and press ▷ button.
3. Connect oscilloscope to main board TP (FEO).
4. Adjust RV3 so that the waveform is as shown is the figure below. (focus gain adjustment)
5. Connect oscilloscope to main board TP (TEO).
6. Adjust RV5 so that the waveform is as shown is the figure below. (tracking gain adjustment)

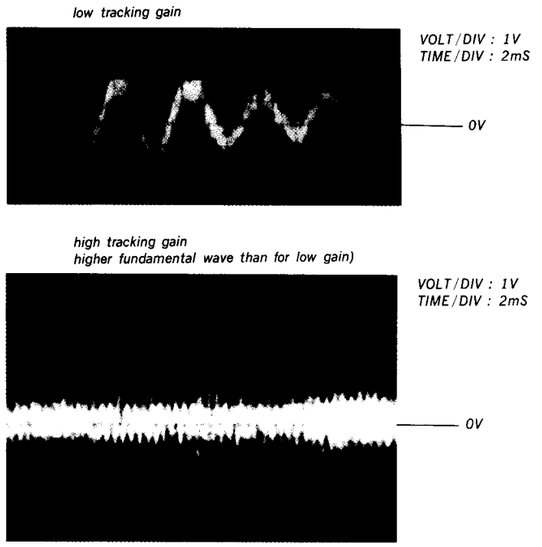


- Incorrent Examples (DC level changes more than on adjusted waveform)

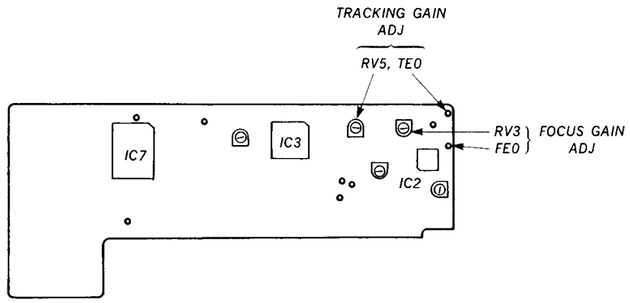




- Incorrect Examples (fundamental wave appears)



Adjustment Location : main board

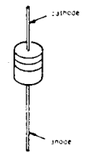


SECTION 3
DIAGRAM

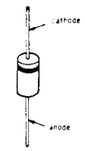
3-1. SEMICONDUTOR LEAD LAYOUTS

2SK381-C

RD6.8FS-B1

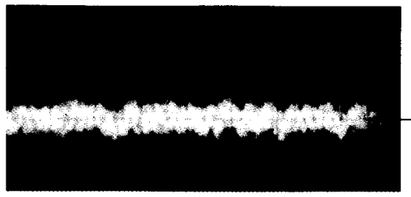


10E2

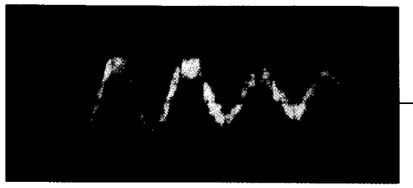


3-2.

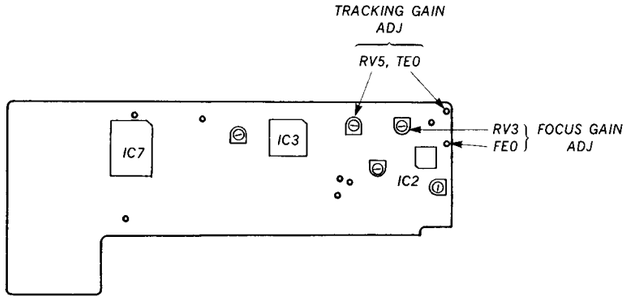
SECTION 3
DIAGRAM



• Incorrect Examples (fundamental wave appears)



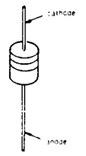
Adjustment Location : main board



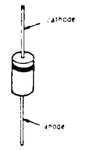
3-1. SEMICONDUTOR LEAD LAYOUTS

2SK381-C

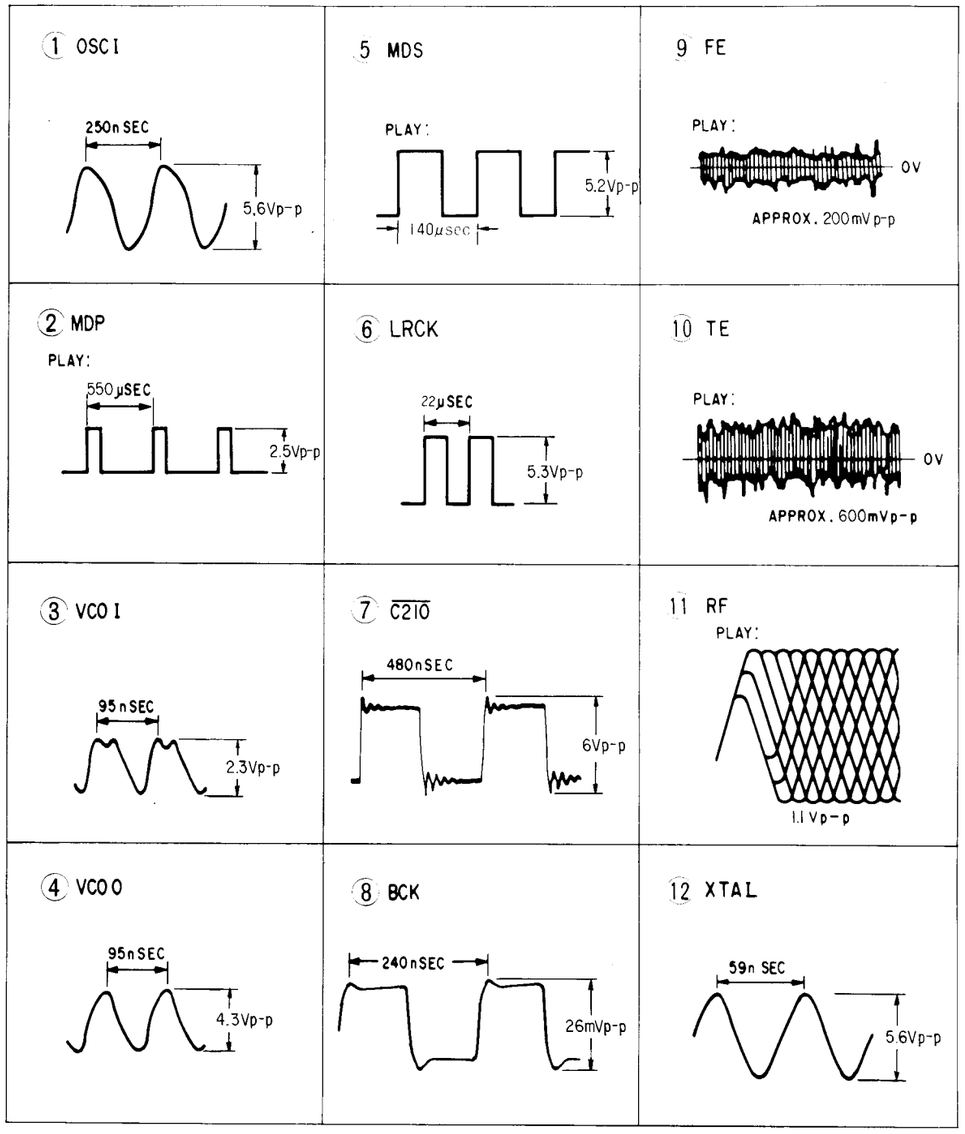
RD6.8FS-B1



10E2



3-2. WAVEFORMS



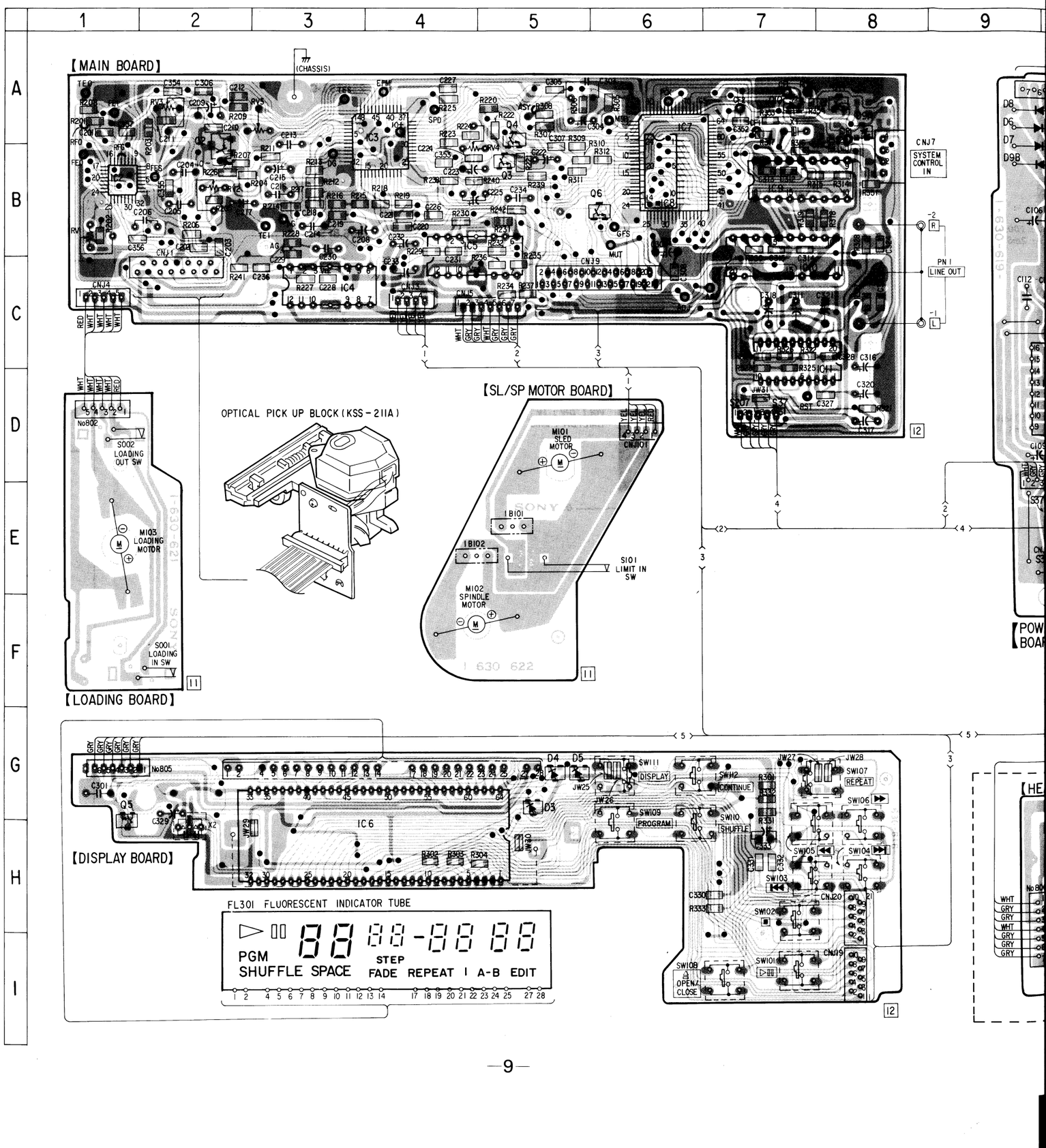
• Semiconductor Location

Ref. No.	Location
D1	A-10
D3	G-5
D4	G-5
D5	G-5
D6	A-9
D7	B-9
D8	A-9
D9A	A-8
D9B	B-9
D10	B-10
IC1	D-10
IC2	B-1
IC3	A-4
IC4	C-3
IC5	B-4
IC6	H-4
IC7	B-6
IC8	B-6
IC9	B-7
IC10	C-7
IC11	C-7
IC12	C-10
Q1	C-10
Q2	B-2
Q3	B-5
Q4	A-5
Q5	G-1
Q6	B-6
Q10	A-7
Q11	A-8

- ○—— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▒ : Pattern of the rear side.

3-3. PRINTED WIRING BOARD

• Refer to page 6 for Semiconductor Lead Layouts.



【MAIN BOARD】

【SL/SP MOTOR BOARD】

【LOADING BOARD】

【DISPLAY BOARD】

【POWER BOARD】

【TRANSFORMER BOARD】

【HEADPHONE BOARD】

【POWER SW BOARD】

OPTICAL PICK UP BLOCK (KSS-211A)

FL301 FLUORESCENT INDICATOR TUBE

E,EA MODEL

US,CANADIAN MODEL

AEP,UK MODEL

X NOT REPLACEABLE: BUILT IN TRANSFORMER

• Refer to page 17 for IC block diagrams.

【DISPLAY BOARD】

【LOADING BOARD】

【SL/SP MOTOR BOARD】

OPTICAL PI

IC4 IC5 DRIVE AMP

Q5 +30V SWITCH

Q3,4 PLL SWITCH

IC6 SYSTEM CONTROL

IC3 CXA1082BQ

IC7 DIGITAL SIGNAL /CLV SERV

RF PLL

FL301 FLUORESCENT INDICATOR TUBE

【MAIN BOARD】

OPTICAL PICK-UP BLOCK (KSS-211A)

DETECTORS

CN PH RED

CN PH WHT

CNJ1(1/2)

CNJ1(1/2)

F E C D A B

RFG

C355 0.1

Q2 LASER SWITCH

C203 10p

C202 10p

IC2 RF AMP SIGNAL PROCESSOR /LASER ON CIRCUIT

CNJ5

【POWER BOARD】

CNJ11 6P

GND
RESET
VDD
F1
F2
+30V

GND
GND
+8V
−8V
−5V
+5V
RESET

IC1 +/−5V REG

IC12 +30V REG

C319 100μ 10V

C110 4.7μ 50V

C115 0.1

D1 RD6.8ES

C107 2200μ 16V

D7 10E2

D6 10E2

−8V

+8V

S37

C120 0.1

C106 4700μ 16V

D8 10E2

D9B 10E2

D10 10E2

IC12 M5231TL

C105 0.1

C113 100μ 63V

R102 68k

R103 1k

Q1 2SK381

C114 10μ 50V

R101 3.3k

C109 100μ 10V

C108 100μ 10V

C111 0.1

C112 0.1

CNJ5

CNJ16

【TRANSFORMER BOA

US, CA

T901 POWER TRANSFOR

C232 10μ 50V

C210 2200p

C354 0.1

C229 560p

R227 18k

R226 18k

C228 2200p

IC4 A1291P

Q2 2SB798

R202 8.2k

RV1 22k

E.F BALANCE

RFO

R201 24k

C206 0.033

C209 100μ 10V

R206 100

R207 22

FOCUS BIAS

IC2 CXA1081Q

C201 2200p

C357 0.1

C205 0.01 1F

C204 0.01 1F

C356 0.1

+5V

TRACKING GAIN

RV5 22k

R204 15k

RV2 4.7k

R205 15k

C208 100μ 10V

FOCUS GAIN

RV3 22k

C211 4700p

R208 4.7k

TE

TES

FES

FE

TEO

FEO

FE1

R209 4.7k

C214 0.033 1F

C213 0.1 1F

C212 2200p

FS3 FOD VC

FE ATSC TZC TE DFCT DVEE MIRR FOK WDCK SPDL+ SPDL− DVCC

EFM

SPD

C227 100p

R225 100k

IC3 FOCUS /TRACKING /SLED SERVO

RF PLL

GFS

RST

DG

R220 10k

C226 0.1

C308 0.1

C302 100μ 10V

C352 0.1

IC7 DIGITAL SIGNAL PROCESSOR /CLV SERVO

IC7 CXD1125QX

SQEX DOUT GFS DB08 DB07 DB06 DB05 VDD DB04 DB03 DB02 DB01 RA01 RA02 RA03 RA04 RA05 RA06 RA07 RA08 RA09 RA10 RA11 RAWE RACS C4W VSS XTAL XTAO MD1 MD2 MD3 SLOB PSSL APTR APTL C1F1 C1F2 C2F1

WDCK DATA C2IO C2HO C4LR RAOV VDD DTOP U0FS CLCK WFCK RFCK C2PO C2FL C2F2

R316 1k R315 1k

BCK

CF1 CF2

PCK RCK CFL

IC8 LC9600PM-144

I/O4 I/O5 I/O6 I/O7 I/O8 I/O1 I/O2 I/O3 GND

A11 OE WE A10 A9 VCC A1 A2 A3 A4 A5 A6 A7 A8

IC8 16BIT RAM

IC9 CXD2550P

PRG L PRG CK PRG D INIT LRCK DATA BCK VDD X IN X OUT B/4 TST1

IC10 CXD1161P-2

TSTO TST1 TST2 IF GND VRL1 GND VRL2 NC CH2O VDD BCK DATA WDCK LRCK WDCK VDD VRH2 VRH1 CH1O

IC11 M5204P

IN OUT A+ A− AO MUT+ RST +VCC OUT B OUT IN OUT A+ A− AO MUTE GND −VCC OUT

C311 100 10V

C314 0.1

C315 0.1

C312 15p

C313 15p

X1 16MHz

R317 330

C316 100μ 10V

R320 1.5k

C317 4.7μ 35V

C318 4.7μ 35V

R321 33k

R323 68k

R325 68k

R322 33k

R324 68k

R326 68k

C320 330p 6.3V

C321 330p 6.3V

C327 220p

C328 220p

R327 1k

R328 1k

C323 560p

C324 560p

PN1

L R

LINE OUT

R318 1k

R319 1k

CLK DATA

(DATA)

IC9 DIGITAL FILTER

IC10 D/A CONVERTER

IC11 LINE AMP

Q10,11 SWITCHING

Q11 FN1L4M

Q10 FA1A4M

R352 47k

R353 6.8k

R354 6.8k

D9A US1060M

SIR

R351 10

CNJ7

SYSTEM CONTROL IN

【HEADPHONE BOARD】 S37

S37 SW1 SW2 S207

POWER STANDBY ON

RV6 1kΩ2 PHONE LEVEL

R330 56

R329 56

C325 1500p

C326 1500p

C399 0.1

J1 HEAD PHONES

CNJ8 7P: S37 4P: S207

CNJ8 S37 No806 7P S207 No807 4P

【POWER SW BOARD】 S207

CNJ11 No803 S37: 5P S207: 2P

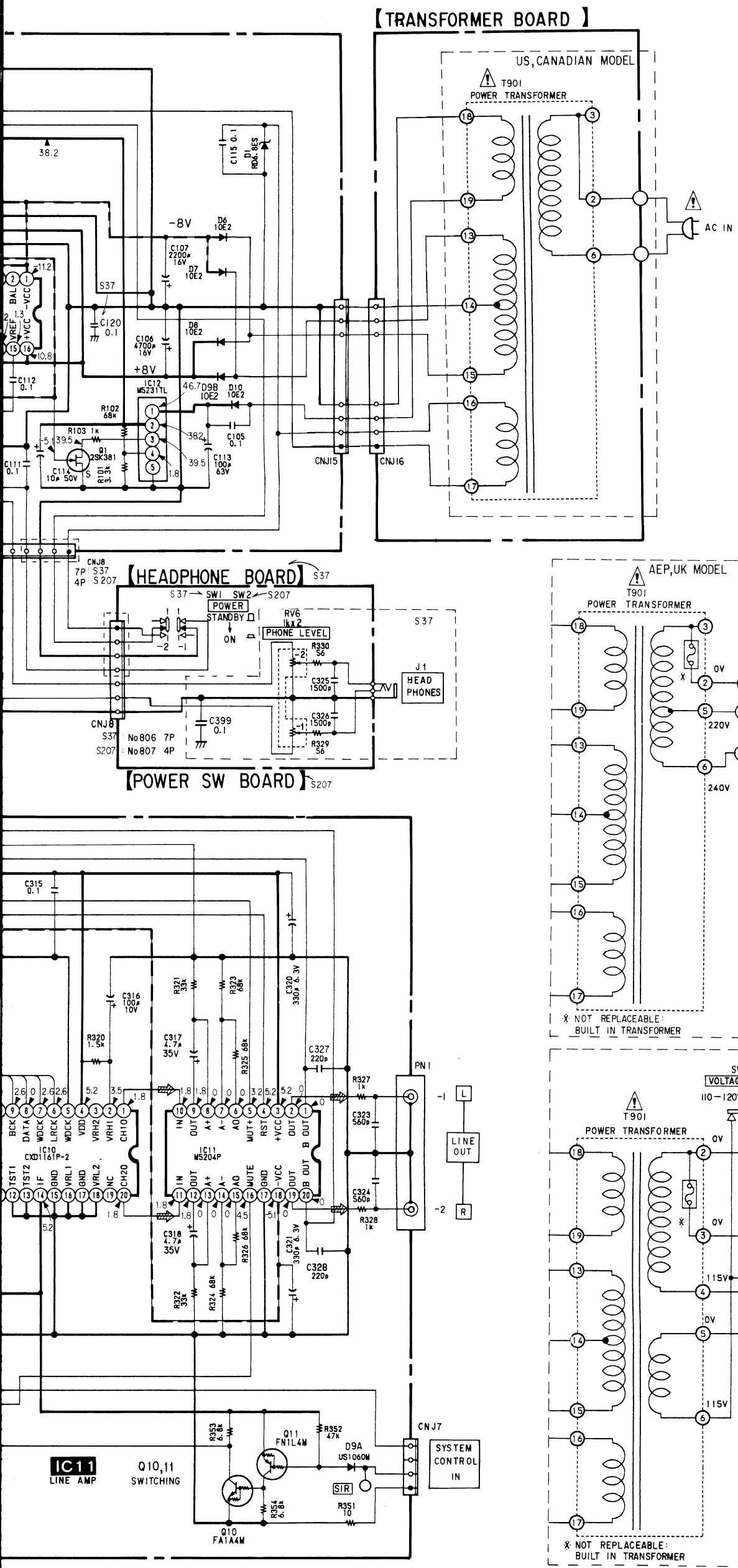
CNJ2 S37: 5P S207: 2P

CNJ2 DR −H

+3.4

9 10 11

1 2 3 4 5 6 7 8 12



- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- △ : internal component.
- ▬▬ : B+ Line
- ▬ ▬ : B− Line
- ▭ : adjustment for repair.
- AC voltage readings in the bias oscillator with a VTVM.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
  no mark : STOP
  ( ) : PLAY
- Voltages are taken with a VOM (Input Impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

3-5. CIRCUIT DESCRIPTION

IC6 (MSC6458) SYSTEM CONTROL MICROCOMPUTER

Table 1 Pin Functions IC6

Description of IC6 (MSC6458)

IC101 has the following functions:

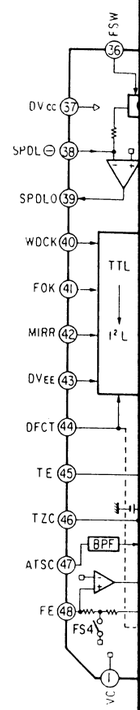
- Digital signal output to operation key
- Sub Q signal loading and processing
- Fluorescent display (FLD) control
- Servo circuit control

Pin Function

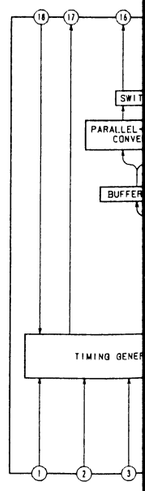
Pin no.	Pin name	I/O	Description
1	PLL SW	O	"L" in play mode and "H" in search mode.
2	CLK	O	Command transfer of clock to SSP (IC3) and DSP (IC7).
3	DATA	O	Command transfer of data to SSP (IC3) and DSP (IC7).
4	XLK	O	Command transfer of latch to SSP (IC3) and DSP (IC7).
5	PRGL	O	Command transfer of latch to DFIL (IC9).
6	SYNC OUT	O	No connector (NC).
7	SENSE	I	SSP (IC2) and DSP (IC3) sense information.
8	SYNC ON	I	Sync REC ("L" in REC mode).
9	SIRCS	I	Remote control signal input.
10	SCOR	I	Q code read timing.
11	AF ADJ	I	No connection (NC)
12	ADJ	I	"L" in test mode.
13	AMUTE	O	ALL muting. Output to DSP (IC3) MUTG.
14	EMPS	O	No connection (NC)
15	SUBQ	I	Subcode data.
16	SQCLK	O	Subcode data read clock.
17	GFS	I	"H" when CLV is locked.
18	FOK	I	"H" when focus is on.
19	KEY0	I	Key matrix input. "H" active.
20	KEY1	I	Key matrix input. "H" active.
21	KEY2	I	Key matrix input. "H" active.
22	KEY3	I	Key matrix input. "H" active.
23	KEY4	I	Key matrix input. "H" active.
24	KEY5	I	Key matrix input. "H" active.
25	INSW	I	Loading IN SW.
26	LDON	O	Laser on / off.
27	OUTSW	I/O	Loading OUT SW.
28	LODOUT	O	Loading motor control.
29	LODIN	O	Loading motor control.
30	OSC1	I	Oscillator input terminal (4 MHz).
31	OSC0	I	Oscillator input terminal (4 MHz).

Pin No.	Pin name	I/O	Descriprion
32	GND	—	GND terminal.
33	RESET	I	Reset input terminal. Input when power is turned on.
34	TEST	—	No connection (NC).
35	VL DOWN	—	No connection (NC).
36	VL UP	O	Volume up.
37	TIMER	O	No connection (NC).
38	LED	O	Volume indicator.
39	8G	O	FLD timing output.
40	7G	O	FLD timing output.
41	6G	O	FLD timing output.
42	5G	O	FLD timing output.
43	4G	O	FLD timing output.
44	3G	O	FLD timing output.
45	2G	O	FLD timing output.
46	1G	O	FLD timing output.
47	NC	—	No connection (NC).
48	o	O	FLD seqment output.
49	n	O	FLD seqment output.
50	m	O	FLD seqment output.
51	+ 30V	—	+ 30V
52	l	O	FLD seqment output.
53	k	O	FLD seqment output.
54	j	O	FLD seqment output.
55	i	O	FLD seqment output.
56	h	O	FLD seqment output.
57	g	O	FLD seqment output.
58	f	O	FLD seqment output.
59	e	O	FLD seqment output.
60	d	O	FLD seqment output.
61	c	O	FLD seqment output.
62	b	O	FLD seqment output.
63	a	O	FLD seqment output.
64	VDD	—	positive(+) power supply (5V)

• IC3 CXA-10

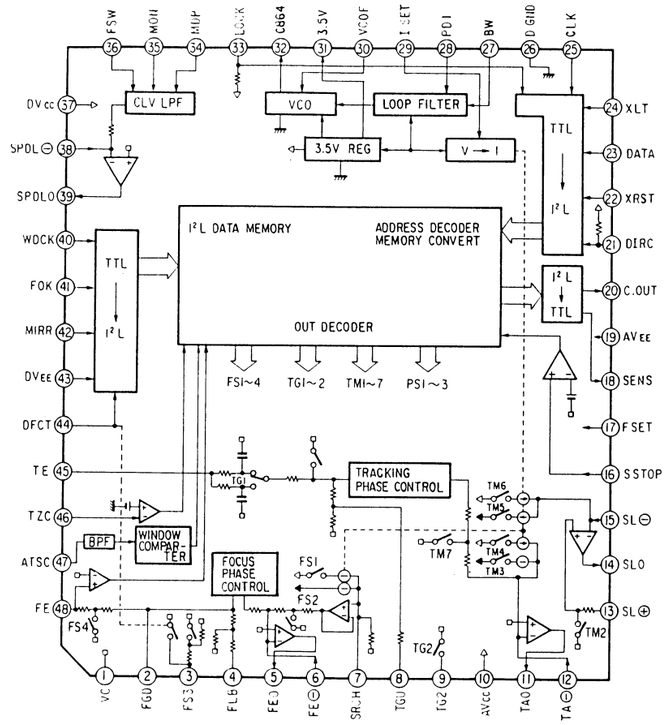


• IC9 CXD255

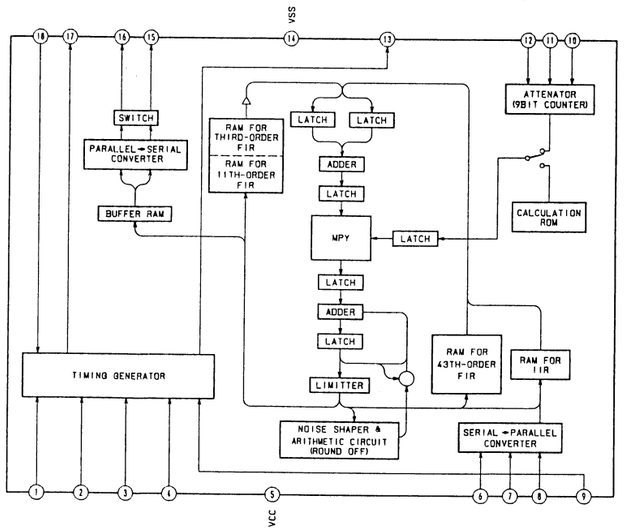


3-6. IC BLOCK DIAGRAM

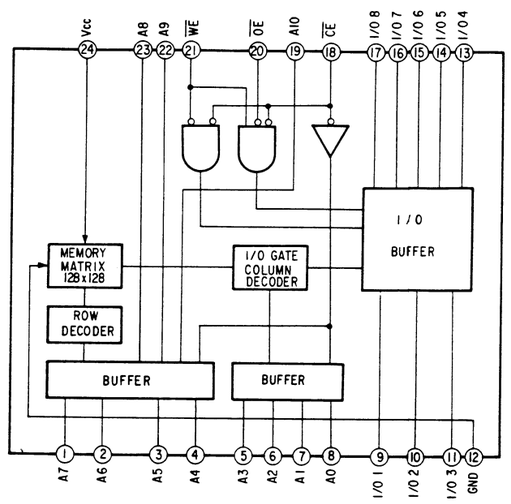
• IC3 CXA-1082BQ



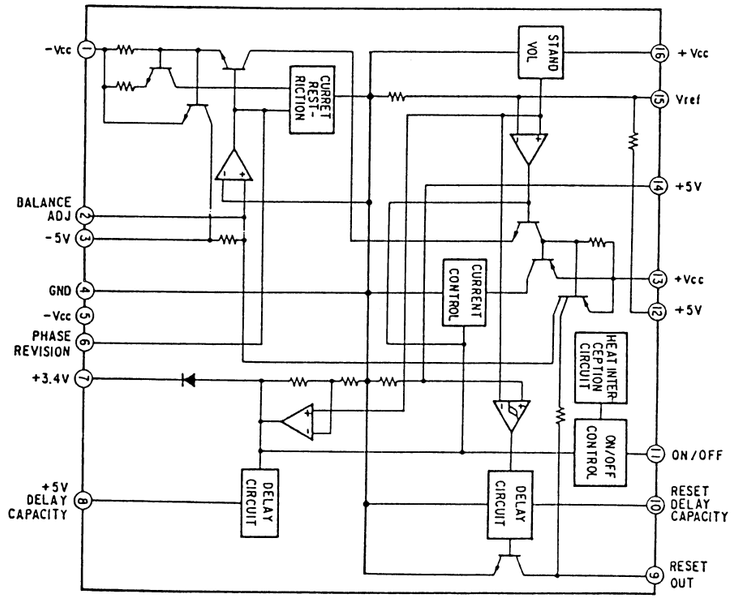
• IC9 CXD2550P



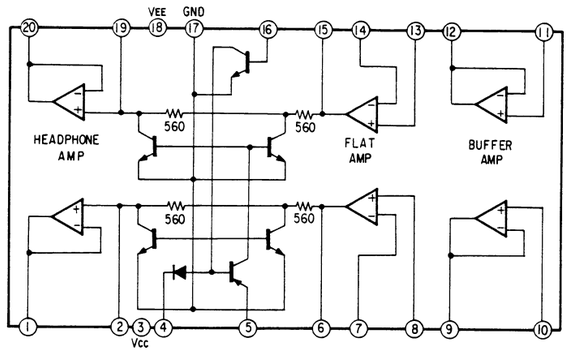
• IC8 LC9600PM-144



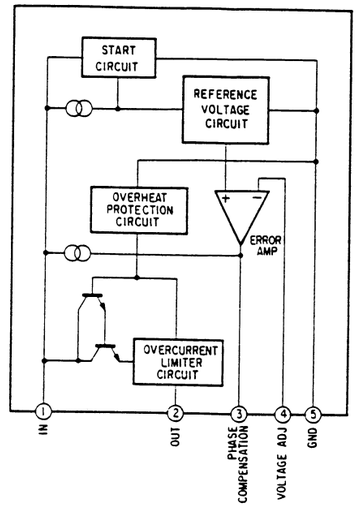
• IC1 M5294P



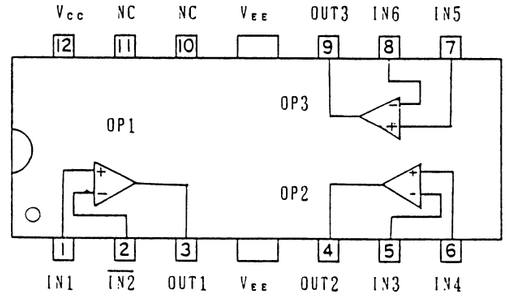
• IC11 M5204P



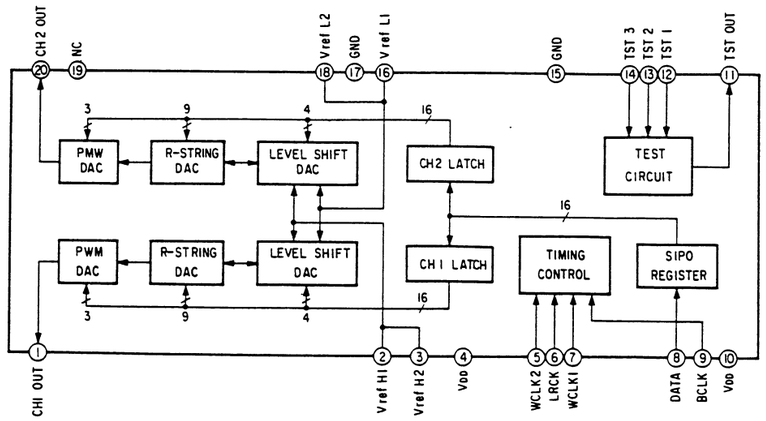
• IC12 M5231TL



• IC4, 5 CXA1291P



• IC10 CXD1161P-2



SECTION 4
EXPLODED VIEWS

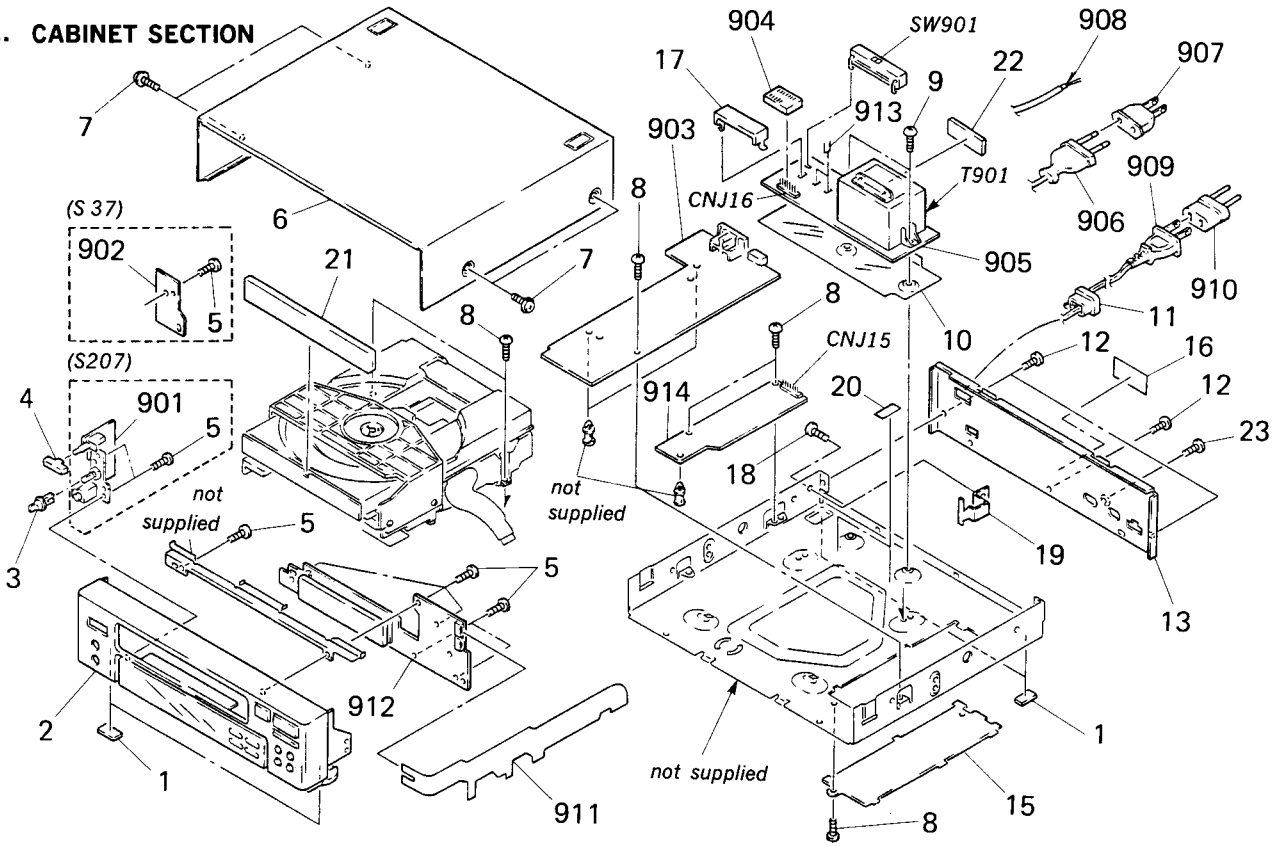
NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Color Indication of Appearance Parts
  Example:
  (RED) . . . KNOB, BALANCE (WHITE)
  ↑ ↑
  Cabinet's Color Parts' Color

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifé.

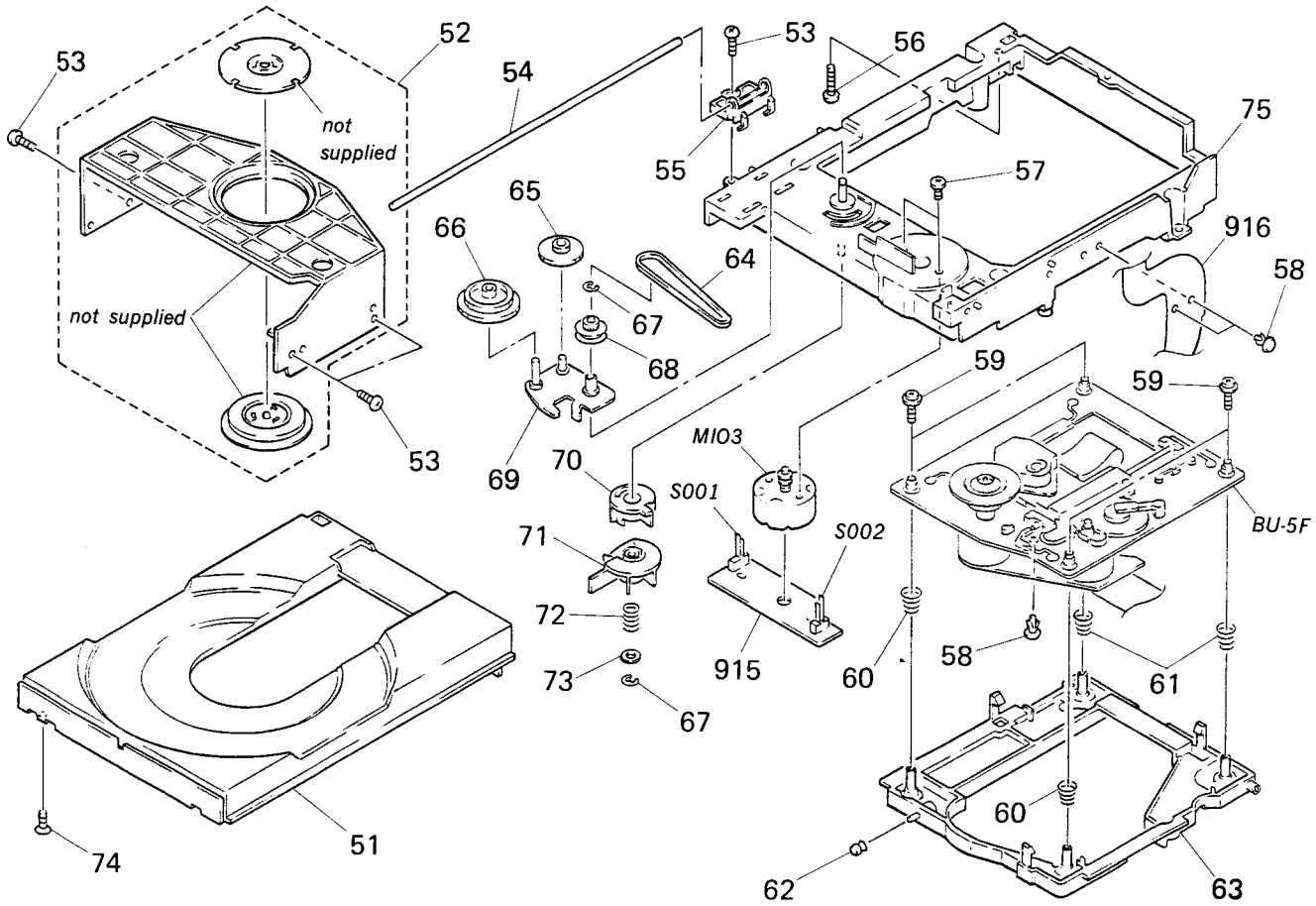
4-1. CABINET SECTION



Ref.No	Part No.	Description	Remarks
1	4-930-336-01	FOOT (FELT)	
2	X-4929-701-1	(S37)....PANEL ASSY, FRONT	
	X-4929-702-1	(S207)....PANEL ASSY, FRONT	
3	4-929-707-11	(S37)....KNOB (H.P)	
4	4-929-713-01	(S207)....BUTTON (POWER)	
	4-929-713-11	(S37)....BUTTON (POWER)	
5	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
6	4-930-347-01	(S207)....CASE	
	4-930-347-11	(S37)....CASE	
7	3-704-366-01	SCREW (CASE) (M3X8)	
8	7-682-547-04	SCREW +BVTT 3X6 (S)	
9	7-682-547-04	SCREW (+BVTT M3S)	
10	*4-929-711-01	COVER (A), POWER	
11	*3-703-244-00	(S37 : AEP/UK/EA,S207 : AEP/UK)....BUSHING (2104), CORD	
	*3-703-571-11	(S37 : CND/E,S207 : US,CND)....BUSHING (S)(4516), CORD	
12	7-685-872-09	SCREW +BVTT 3X8 (S)	
13	*4-929-702-01	(S207 : AEP)....PANEL, BACK	
	*4-929-702-11	(US)....PANEL, BACK	
	*4-929-702-21	(S207 : CND)....PANEL, BACK	
	*4-929-702-31	(S207 : UK)....PANEL, BACK	
	*4-929-702-41	(E/EA)....PANEL, BACK	
	*4-929-702-51	(S37 : CND)....PANEL, BACK	
	*4-929-702-61	(S37 : AEP)....PANEL, BACK	
	*4-929-702-71	(S37 : UK)....PANEL, BACK	
15	*4-929-708-01	PLATE, BOTTOM	
16	*4-885-838-00	LABEL, CLASS 1	
17	*4-929-710-01	COVER (B), POWER	
18	7-621-775-10	SCREW +B 2.6X4	
19	*4-929-712-01	(S37 : AEP/UK/E/EA,S207 : AEP/UK)....COVER (C), POWER	

Ref.No	Part No.	Description	Remarks
20	3-831-441-XX	CUSHION (B), CABINET	
21	4-929-715-01	PANEL, LOADING	
22	*4-929-735-01	(S37 : CND/AEP/E/EA S207 : US/CND/AEP) ....CUSHION	
23	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
901	*1-630-621-11	(S37)....PC BOARD, HEADPHONE	
902	*1-630-617-11	(S207)....PC BOARD, POWER SW	
903	*A-4617-080-A	(S37)....MOUNTED PCB, MAIN	
	*A-4617-088-A	(S207)....MOUNTED PCB, MAIN	
904	1-568-479-11	SOCKET, CONNECTOR (PC BOARD)7P	
905	*1-630-618-11	PC BOARD, TRANSFORMER	
906	⚠1-555-750-00	(S37 : AEP/EA, S207 : AEP)....CORD, POWER	
907	⚠1-506-401-00	(EA)....ADAPTOR, CONVERSION	
908	⚠1-556-035-00	(S37 : UK, S207 : UK)....CORD, POWER	
909	⚠1-551-188-XX	(E)....CORD, POWER	
	⚠1-558-941-11	(S37 : CND, S207 : US/CND)....CORD, POWER	
910	⚠1-526-565-00	(E)....AC PLUG ADAPTOR	
911	1-535-778-11	JUMPER, FILM (WITH TERMINAL)	
912	*1-630-616-11	PC BOARD, DISPLAY	
913	*1-535-771-11	TERMINAL	
914	*1-630-619-11	PC BOARD, POWER	
CNJ15	*1-568-480-11	PIN, CONNECTOR (PC BOARD) 7P	
CNJ16	*1-568-480-11	PIN, CONNECTOR (PC BOARD) 7P	
SW901	⚠1-571-772-11	(E/EA)....SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)	
T901	⚠1-449-663-11	(E/EA)....TRANSFORMER, POWER	
	⚠1-449-664-11	(S37 : CND,S207 : US/CND)....TRANSFORMER, POWER	
	⚠1-449-665-11	(S37 : AEP/UK,S207 : AEP/UK)....TRANSFORMER, POWER	

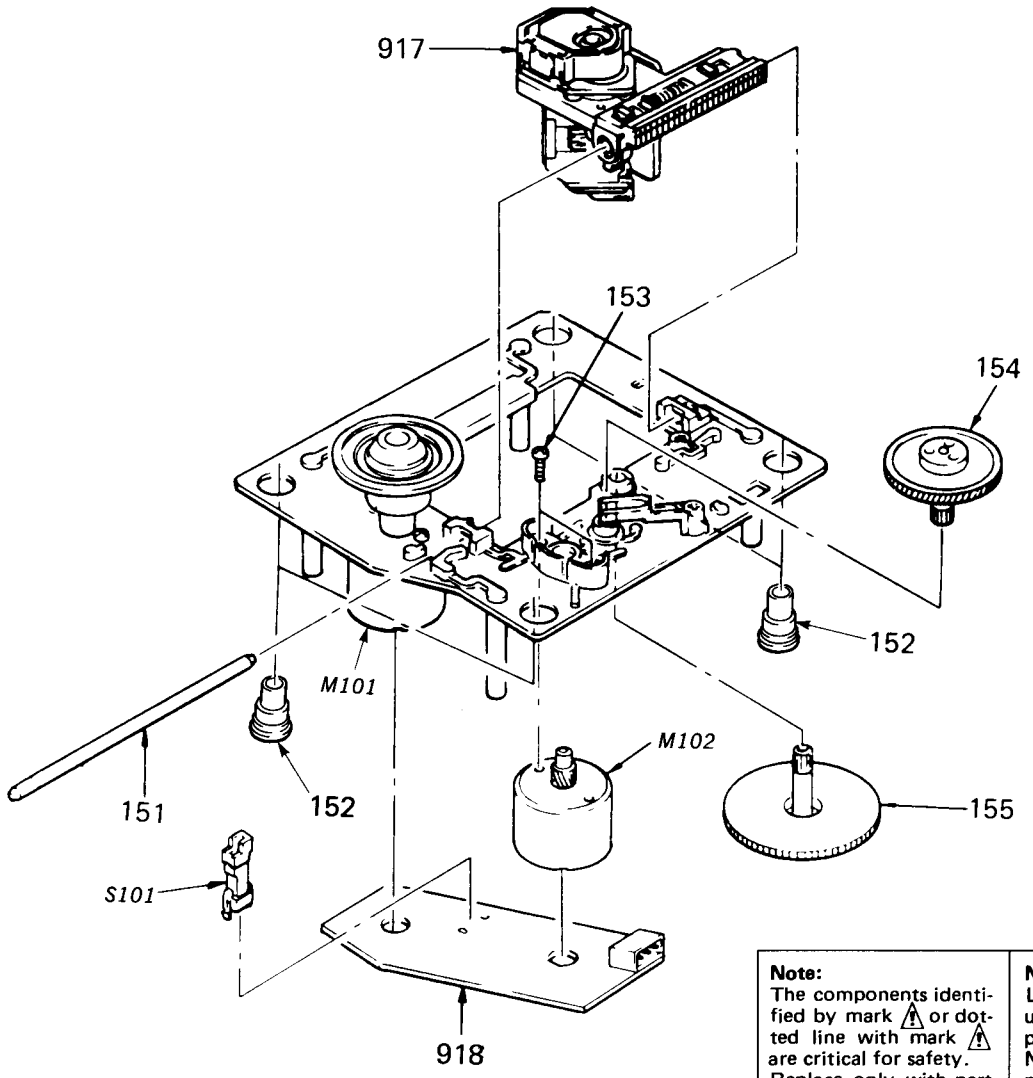
4-2. CDM13 SECTION



Ref.No	Part No.	Description	Remarks
51	4-929-732-01	TABLE, DISK	
52	A-4604-219-A	HOLDER (MG) ASSY	
53	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
54	4-929-721-01	SHAFT	
55	4-929-723-01	GUIDE (T)	
56	4-928-635-11	SCREW, +BV (2.6X16) TAPPING	
57	7-621-775-10	SCREW +B 2.6X4	
58	3-531-576-01	RIVET	
59	7-685-134-19	SCREW (+ PTPWH) (2.6X8)	
60	4-917-572-01	SPRING (B)	
61	4-917-541-01	SPRING (B)	
62	4-927-631-01	ROLLER (L)	
63	*4-929-730-01	HOLDER (BU-5)	
64	4-927-649-01	BELT	
65	4-927-628-01	GEAR (C)	

Ref.No	Part No.	Description	Remarks
66	4-927-620-01	GEAR (P)	
67	7-624-105-04	STOP RING 2.3, TYPE -E	
68	4-929-724-01	PULLEY (B)	
69	X-4929-703-1	ARM ASSY, SWING	
70	4-929-727-01	CAM (A)	
71	4-929-729-01	CAM (B)	
72	3-659-338-00	SPRING, COMPRESSION	
73	4-927-654-01	WASHER (LIMITER)	
74	7-685-234-19	SCREW +KTP 2.6X8 TYPE2NON-SLIT	
75	X-4929-704-1	CHASSIS (MD) ASSY	
915	*1-630-621-11	PC BOARD, LOADING	
916	1-535-777-11	JUMPER, FILM (WITH TERMINAL)	
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
S001	1-571-924-11	SWITCH, LEAF (LOADING IN SW)	
S002	1-571-924-11	SWITCH, LEAF (LOADING OUT SW)	

4-3. BU-5F SECTION



Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description	Remarks
151	4-917-565-01	SHAFT, SLED	
152	4-917-562-01	INSULATOR	
153	7-621-255-15	SCREW +P 2X3	
154	4-917-567-01	GEAR (M)	
155	4-917-564-01	GEAR (P), FLATNESS	

Ref.No	Part No.	Description	Remarks
917	⚠8-848-062-01	DEVICE, OPTICAL KSS-211A	
918	*1-630-622-11	PC BOARD, SL/SP MOTOR	
M101	X-4917-523-1	MOTOR, ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR, ASSY (SLED)	
S101	1-571-274-11	SWITCH, LEAF (LIMIT IN SW)	

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:
MF: μF, PF: μμF.

RESISTORS
- All resistors are in ohms.
- F: nonflammable

COILS
- MMH: mH, UH: μH

SEMICONDUCTORS
In each case, U: μ, for example:
UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No	Part No.	Description
901	*1-630-621-11	(S37)....PC BOARD, HEADPHONE
902	*1-630-617-11	(S207)....PC BOARD, POWER SW
903	*A-4617-080-A	(S37)....MOUNTED PCB, MAIN
	*A-4617-088-A	(S207)....MOUNTED PCB, MAIN
904	1-568-479-11	SOCKET, CONNECTOR (PC BOARD)7P
905	*1-630-618-11	PC BOARD, TRANSFORMER
906	⚠1-555-750-00	(S37 : AEP/EA, S207 : AEP)....CORD, POWER
907	⚠1-506-401-00	(EA)....ADAPTOR, CONVERSION
908	⚠1-556-035-00	(S37 : UK, S207 : UK)....CORD, POWER
909	⚠1-551-188-XX	(E)....CORD, POWER
	⚠1-558-941-11	(S37 : CND, S207 : US/CND)....CORD, POWER
910	⚠1-526-565-00	(E)....AC PLUG ADAPTOR
911	1-535-778-11	JUMPER, FILM (WITH TERMINAL)
912	*1-630-616-11	PC BOARD, DISPLAY
913	*1-535-771-11	TERMINAL
914	*1-630-619-11	PC BOARD, POWER
915	*1-630-621-11	PC BOARD, LOADING
916	1-535-777-11	JUMPER, FILM (WITH TERMINAL)
917	⚠8-848-062-01	DEVICE, OPTICAL KSS-211A
918	*1-630-622-11	PC BOARD, SL/SP MOTOR

CAPACITOR

C105	1-164-159-11	CERAMIC	0.1MF		50V
C106	1-124-898-11	ELECT	4700MF	20%	16V
C107	1-124-556-11	ELECT	2200MF	20%	16V
C108	1-124-443-00	ELECT	100MF	20%	10V
C109	1-124-443-00	ELECT	100MF	20%	10V
C110	1-124-927-11	ELECT	4.7MF	20%	50V
C111	1-162-179-11	CERAMIC	0.1MF		50V
C112	1-162-179-11	CERAMIC	0.1MF		50V
C113	1-124-572-11	ELECT	100MF	20%	63V
C114	1-123-875-11	ELECT	10MF	20%	50V
C115	1-164-159-11	CERAMIC	0.1MF		50V
C120	1-136-153-00	(S37)....FILM	0.01MF	5%	50V
C201	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C202	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C203	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C204	1-136-153-00	FILM	0.01MF	5%	50V
C205	1-136-153-00	FILM	0.01MF	5%	50V
C206	1-136-159-00	FILM	0.033MF	5%	50V
C208	1-124-443-00	ELECT	100MF	20%	10V
C209	1-124-443-00	ELECT	100MF	20%	10V
C210	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C211	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C212	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C213	1-136-165-00	FILM	0.1MF	5%	50V
C214	1-136-159-00	FILM	0.033MF	5%	50V
C215	1-123-382-00	ELECT	3.3MF	20%	50V
C216	1-136-165-00	FILM	0.1MF	5%	50V
C217	1-123-875-11	ELECT	10MF	20%	50V
C218	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C219	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C220	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C221	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C222	1-124-438-00	ELECT	1MF	20%	50V
C223	1-126-094-11	ELECT	4.7MF	20%	35V
C224	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C225	1-124-443-00	ELECT	100MF	20%	10V
C226	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C227	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C228	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C229	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C230	1-136-169-00	FILM	0.22MF	5%	50V
C231	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C232	1-123-875-11	ELECT	10MF	20%	50V
C233	1-123-875-11	ELECT	10MF	20%	50V
C234	1-124-611-00	ELECT	1MF	20%	100V
C236	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C301	1-136-165-00	FILM	0.1MF	5%	50V
C302	1-124-443-00	ELECT	100MF	20%	10V
C303	1-136-159-00	FILM	0.033MF	5%	50V
C304	1-124-902-00	ELECT	0.47MF	20%	50V
C305	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C306	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C307	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C308	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C311	1-124-443-00	ELECT	100MF	20%	10V
C312	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C313	1-163-097-00	CERAMIC CHIP	15PF	5%	50V
C314	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C315	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C316	1-124-443-00	ELECT	100MF	20%	10V
C317	1-126-094-11	ELECT	4.7MF	20%	35V
C318	1-126-094-11	ELECT	4.7MF	20%	35V
C319	1-124-443-00	ELECT	100MF	20%	10V
C320	1-124-442-00	ELECT	330MF	20%	6.3V
C321	1-124-442-00	ELECT	330MF	20%	6.3V
C323	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C324	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C325	1-161-374-11	(S37)....CERAMIC	0.0015MF	20%	16V
C326	1-161-374-11	(S37)....CERAMIC	0.0015MF	20%	16V
C327	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C328	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C329	1-124-438-00	ELECT	1MF	20%	50V
C330	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C331	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C332	1-163-135-00	CERAMIC CHIP	560PF	5%	50V
C333	1-124-584-00	ELECT	100MF	20%	10V
C352	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C353	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C354	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C355	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C356	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C357	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C399	1-136-165-00	(S37)....FILM	0.1MF	5%	50V

CNJ2	*1-564-336-00	(S207)....PIN, CONNECTOR 2P
	*1-564-339-11	(S37)....PIN, CONNECTOR 5P
CNJ3	*1-564-338-00	PIN, CONNECTOR 4P
CNJ4	*1-564-339-00	PIN, CONNECTOR 5P
CNJ5	*1-564-341-11	PIN, CONNECTOR 7P

Ref.No	Part No.	Description
CNJ7	1-564-980-11	PIN, CONNECTOR 4P (SYSTEM CONTROL IN)
CNJ8	*1-564-338-00	(S207)....PIN, CONNECTOR 4P
	*1-564-341-11	(S37)....PIN, CONNECTOR 7P
CNJ9	*1-568-506-11	SOCKET, CONNECTOR 21P
CNJ11	*1-564-340-00	PIN, CONNECTOR 6P
CNJ15	*1-568-480-11	PIN, CONNECTOR (PC BOARD) 7P
CNJ16	*1-568-480-11	PIN, CONNECTOR (PC BOARD) 7P
CNJ19	*1-568-505-11	HOUSING, CONNECTOR 10P
CNJ20	*1-568-505-11	HOUSING, CONNECTOR 10P
D1	8-719-109-96	DIODE RD6.8ES-B1
D3	8-719-100-03	DIODE 1S2835
D4	8-719-100-03	DIODE 1S2835
D5	8-719-100-03	DIODE 1S2835
D6	8-719-200-02	DIODE 10E2
D7	8-719-200-02	DIODE 10E2
D8	8-719-200-02	DIODE 10E2
D9A	8-719-100-03	DIODE 1S2835
D9B	8-719-200-02	DIODE 10E2
D10	8-719-200-02	DIODE 10E2
FL301	1-519-499-11	INDICATOR TUBE, FLUORESCENT
HS1	*4-922-525-01	HEAT SINK
IB101	1-233-171-11	COMPOSITION CIRCUIT BLOCK
IB102	1-233-171-11	COMPOSITION CIRCUIT BLOCK
IC1	8-759-631-40	IC M5294P
IC2	8-752-033-14	IC CXA1081Q
IC3	8-752-032-29	IC CXA1082BQ
IC4	8-752-035-28	IC CXA1291P
IC5	8-752-035-28	IC CXA1291P
IC6	8-759-978-34	IC MSC6458-32SS
IC7	8-752-328-62	IC CXD1125Q
IC8	8-752-323-64	IC CXK5816M-12L
IC9	8-752-328-72	IC CXD2550P
IC10	8-759-805-36	IC CXD1161P-3
IC11	8-759-631-39	IC M5204P
IC12	8-759-605-43	IC M5231TL
J1	1-507-967-51	(S37)....JACK (HEADPHONES)
JW25	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW26	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW27	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW28	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW29	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW30	1-216-295-00	METAL GLAZE 0 5% 1/10W
JW31	1-216-295-00	METAL GLAZE 0 5% 1/10W
M101	X-4917-523-1	MOTOR, ASSY (SPINDLE)
M102	X-4917-504-1	MOTOR, ASSY (SLED)
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)
PN1	1-566-921-11	JACK, PIN 2P (LINE OUT)
Q1	8-729-600-94	TRANSISTOR 2SK381-C
Q2	8-729-101-07	TRANSISTOR 2SB798-DL
Q3	8-729-113-13	TRANSISTOR FA1A4M-L33
Q4	8-729-112-97	TRANSISTOR FA1L4M-L31
Q5	8-729-112-97	TRANSISTOR FA1L4M-L31
Q6	8-729-112-97	TRANSISTOR FA1L4M-L31
Q10	8-729-113-13	TRANSISTOR FA1A4M-L33
Q11	8-729-113-66	TRANSISTOR FN1L4M-M31

RESISTOR

R101	1-249-423-11	CARBON	3.3K	5%	1/4W
R102	1-249-439-11	CARBON	68K	5%	1/4W
R103	1-249-417-11	CARBON	1K	5%	1/4W
R201	1-216-082-00	METAL GLAZE	24K	5%	1/10W
R202	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W
R203	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R204	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R205	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R206	1-216-025-00	METAL GLAZE	100	5%	1/10W
R207	1-216-009-00	METAL GLAZE	22	5%	1/10W
R208	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R209	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R211	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R212	1-216-095-00	METAL GLAZE	82K	5%	1/10W
R213	1-216-107-00	METAL GLAZE	270K	5%	1/10W
R214	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R215	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W
R216	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R217	1-216-114-00	METAL GLAZE	510K	5%	1/10W
R218	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R219	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R220	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R221	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R222	1-216-043-00	METAL GLAZE	560	5%	1/10W
R223	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R224	1-218-154-11	METAL GLAZE	3.6K	1%	1/10W
R225	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R226	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R227	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R228	1-216-001-00	METAL GLAZE	10	5%	1/10W
R229	1-216-100-00	METAL GLAZE	130K	5%	1/10W
R230	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W
R231	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R232	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R234	1-216-097-00	METAL GLAZE	100K	1%	1/10W
R235	1-218-163-11	METAL GLAZE	120K	1%	1/10W
R236	1-218-163-11	METAL GLAZE	120K	1%	1/10W
R237	1-216-097-00	METAL GLAZE	100K	1%	1/10W
R238	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R239	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R240	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R241	1-216-001-00	METAL GLAZE	10	5%	1/10W
R242	1-216-001-00	METAL GLAZE	10	5%	1/10W
R301	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R302	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R303	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R304	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R305	1-216-121-00	METAL GLAZE	1M	5%	1/10W
R306	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R307	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R308	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R309	1-216-097-00	METAL GLAZE	100K	5%	1/10W
R310	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R311	1-216-097-00	METAL GLAZE	100K	1%	1/10W
R312	1-216-097-00	METAL GLAZE	100K	1%	1/10W
R314	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R315	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R316	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R317	1-216-037-00	METAL GLAZE	330	5%	1/10W
R318	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R319	1-216-049-00	METAL GLAZE	1K	5%	1/10W
R320	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W
R321	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R322	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R323	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R324	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R325	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R326	1-216-093-00	METAL GLAZE	68K	5%	1/10W
R327	1-216-049-00	METAL GLAZE	1K	5%	1/10W

Ref.No	Part No.	Description
R328	1-216-049-00	METAL GLAZE 1K 5% 1/10W
R329	1-249-402-11	(S37)....CARBON 56 5% 1/4W
R330	1-249-402-11	(S37)....CARBON 56 5% 1/4W
R331	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R332	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R333	1-216-065-00	METAL GLAZE 4.7K 5% 1/10W
R351	1-216-001-00	METAL GLAZE 10 5% 1/10W
R352	1-216-089-00	METAL GLAZE 47K 5% 1/10W
R353	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
R354	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W
RV1	1-228-995-00	RES, ADJ, CARBON 22K
RV2	1-228-993-00	RES, ADJ, CARBON 4.7K
RV3	1-228-995-00	RES, ADJ, CARBON 22K
RV4	1-228-990-00	RES, ADJ, METAL GLAZE 1K
RV5	1-228-995-00	RES, ADJ, CARBON 22K
RV6	1-238-302-11	(S37)....RES, VAR, CARBON 1K/1K (PHONE LEVEL)
S001	1-571-924-11	SWITCH, LEAF (LOADING IN SW)
S002	1-571-924-11	SWITCH, LEAF (LOADING OUT SW)
S101	1-571-274-11	SWITCH, LEAF (LIMIT IN SW)
SW1	1-552-928-21	(S37)....SWITCH, PUSH (1 KEY) (POWER)
SW2	1-571-305-11	(S207).... SWITCH, PUSH (1 KEY) (POWER)
SW101	1-554-596-22	SWITCH, KEY BOARD (▷)
SW102	1-554-303-21	SWITCH, KEY BOARD (■)
SW103	1-554-596-22	SWITCH, KEY BOARD (⏮)
SW104	1-554-303-21	SWITCH, KEY BOARD (⏭)
SW105	1-554-596-22	SWITCH, KEY BOARD (◀◀)
SW106	1-554-303-21	SWITCH, KEY BOARD (▶▶)
SW107	1-554-596-22	SWITCH, KEY BOARD (REPEAT)
SW108	1-554-596-22	SWITCH, KEY BOARD (OPEN/CLOSE)
SW109	1-554-596-22	SWITCH, KEY BOARD (PROGRAM)
SW110	1-554-596-22	SWITCH, KEY BOARD (SHUFFLE)
SW111	1-554-596-22	SWITCH, KEY BOARD (DISPLAY)
SW112	1-554-303-21	SWITCH, KEY BOARD (CONTINUE)
SW901⚠	1-571-772-11	(E/EA)....SWITCH, VOLTAGE SELECTION (VOLTAGE SELECTOR)
T901	⚠1-449-663-11	(E/EA)....TRANSFORMER, POWER
	⚠1-449-664-11	(S37 : CND,S207 : US/CND)....TRANSFORMER, POWER
	⚠1-449-665-11	(S37 : AEP/UK,S207 : AEP/UK)....TRANSFORMER, POWER
X1	1-567-908-21	VIBRATOR, CRYSTAL (16MHz)
X2	1-577-082-11	VIBRATOR, CERAMIC (4MHz)

	Part No.	Description
		ACCESSORY & PACKING MATERIAL
		**********
	1-558-233-11	CORD (WITH CONNECTOR) (SIRCS)4P
	1-559-533-11	CORD, CONNECTION
	3-750-220-11	(S37 : CND/AEP/E/EA, S207 : CND/AEP) ....MANUAL, INSTRUCTION
	3-750-220-41	(S37 : AEP, S207 : AEP/UK) ....MANUAL, INSTRUCTION
	*3-795-629-11	(S37 : AEP, S207 : AEP/UK)....INSTRUCTION
	4-920-941-01	SHEET (B), PROTECTION
	*4-929-703-01	CUSHION (LEFT)
	*4-929-704-01	CUSHION (RIGHT)
	*4-929-705-01	(S207)....INDIVIDUAL CARTON
	*4-929-705-11	(S37)....INDIVIDUAL CARTON
	*3-750-220-21	(S37 : UK, S207 : US/UK)....MANUAL, INSTRUCTION

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

9-953-649-11

Sony Corporation
Audio Group

English
89C0482-1
Printed in Japan
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Published by A/V Engineering Service Dept.